

Global Automotive Absolute Pressure Sensor Chip Market Growth 2025-2031

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Abstracts

The global Automotive Absolute Pressure Sensor Chip market size is predicted to grow from US\$ 559 million in 2025 to US\$ 927 million in 2031; it is expected to grow at a CAGR of 8.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The automotive absolute pressure sensor chip is a semiconductor device used to measure the absolute pressure in the engine intake manifold. By sensing the vacuum change and converting it into a voltage signal, it provides the ECU with accurate intake volume and operating condition data to optimize fuel injection and ignition timing. The global automotive absolute pressure sensor chip market size in 2024 has not yet been directly counted, but combined with the global pressure sensor chip market size of about US\$3 billion in 2024 (of which absolute pressure sensors account for about 30%-35%) and the logic chip market in China's automotive chip market (US\$23.4 billion in 2024), the automotive absolute pressure sensor chip market size in 2024 is expected to reach US\$23.4 billion by 2024. The absolute pressure sensor chip market size for automobiles is expected to be between US\$500 million and US\$600 million in 2024, with the market share of absolute pressure sensor chips (including pressure sensors) accounting for 53%. With reference to the increase in the penetration rate of new energy vehicles (global sales will exceed 14 million vehicles in 2024) and the growth in demand for intelligent driving (the number of sensors per vehicle will increase from 3-5 to 7-10), the market size of absolute pressure sensor chips for automobiles is expected to be between US\$500 million and US\$600 million in 2024. In the next three years, it will benefit from autonomous driving (the penetration rate of L3/L4 models will increase

by 20% annually), hydrogen-powered vehicles (hydrogen storage tank pressure needs to be monitored), and the electrification of industrial vehicles (such as forklifts and construction machinery). It is expected to exceed US\$700 million in 2025.

United States market for Automotive Absolute Pressure Sensor Chip is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Automotive Absolute Pressure Sensor Chip is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Automotive Absolute Pressure Sensor Chip is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Automotive Absolute Pressure Sensor Chip players cover Melexis, Infineon, NXP, Elmos, Suzhou Novosense Microelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Absolute Pressure Sensor Chip Industry Forecast" looks at past sales and reviews total world Automotive Absolute Pressure Sensor Chip sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Absolute Pressure Sensor Chip sales for 2025 through 2031. With Automotive Absolute Pressure Sensor Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Absolute Pressure Sensor Chip industry.

This Insight Report provides a comprehensive analysis of the global Automotive Absolute Pressure Sensor Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Absolute Pressure Sensor Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Absolute Pressure Sensor Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Absolute Pressure Sensor Chip and breaks

down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Absolute Pressure Sensor Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Absolute Pressure Sensor Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cavity-Type Package

Fully Integrated Type

Segmentation by Application:

Passenger Cars

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Melexis

Infineon

NXP

Elmos

Suzhou Novosense Microelectronics

Wuxi CONSENSIC

Wuxi Sencoch

SV SensTech

Wuxi Senmol

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Absolute Pressure Sensor Chip market?

What factors are driving Automotive Absolute Pressure Sensor Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Absolute Pressure Sensor Chip market opportunities vary by end market size?

How does Automotive Absolute Pressure Sensor Chip break out by Type, by Application?

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